

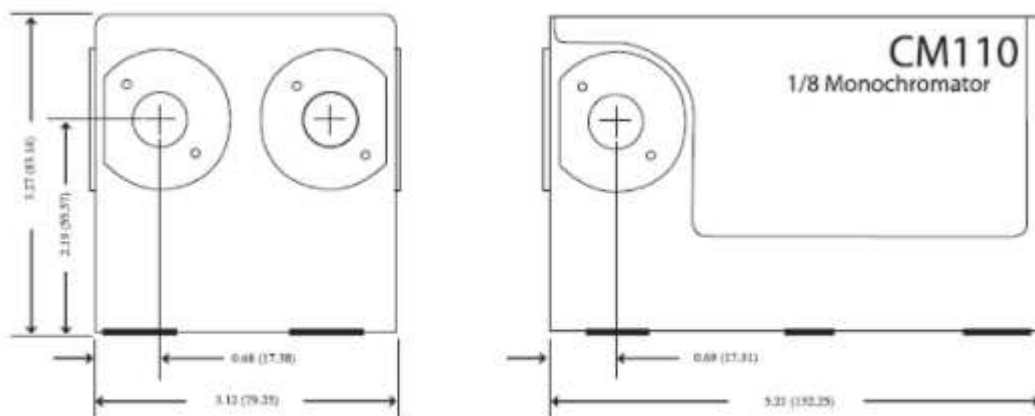
CM110 Compact 1/8m Monochromator

Digikröm CM110 The Leader: Price, Performance, Versatility



- Compact size [5.25 x 3.25 x 3.25 inches]
- Connects to any computer via standard RS 232 interface
- Double grating turret allows for a broad spectral range coverage
- May be factory configured as a monochromator or a spectrograph
- Scans in both directions and in nanometers, Ångstroms, microns, wave-numbers, or eV
- Change slits on the fly
- Monochromator may be factory configured for right angle or straight through beam path.
- Suitable for fluorescence, radiometry, process control, colorimetry, tunable filtering, Raman spectroscopy, among others.

Single piece base construction, direct grating drive, and anti-backlash gearing ensure this unit is rugged and stable enough for demanding applications. Loaded with SP Optics and able to hold two high quality gratings, the CM110 is ideal for spectrometry in the UV to IR spectra. Each instrument is calibrated and certified prior to delivery and comes with easy-to-use software.



Dimensions - Inches (millimeters)

Front View

Side View

| Model | CM110 |
|----------------------|---|
| Design | Czerny-Turner : Dual grating turrets |
| Focal Length | 110mm |
| f/# | 3.9 |
| Beam Path | Straight through standard - right angle provided on request |
| Wavelength Drive | Worm and wheel with micro-processor control and anti-backlash gearing Bi-directional. Usable in positive or negative grating orders |
| Wavelength Precision | 0.2nm (with 1200gv/mm grating) |
| Wavelength Accuracy | ± 0.2nm (with 1200gv/mm grating) |
| Slewing Speed | > 100nm/s |
| Stray Light | 10 ⁻⁵ |
| Slits | Standard set includes: 0.125mm, 0.15mm, 0.30mm, 0.60mm, 1.20mm, & 2.4mm x 4.0mm For other sizes, consult SP |
| Band Pass | < 1nm (with 1200g/mm grating and 0.15mm slit pairs) |
| Gratings | 1 to 2 gratings. (30 x 30mm) must be purchased See CM gratings options page. |
| Software | Demonstration control program and LabView driver included |
| Power | UL listed 110 / 220V power pack |
| Interface | standard: RS 232 |
| Weight | 1.15kg |
| Warranty | 1 year |
| Options | - Handheld control module with function keys and display for local control - RS 232 to USB interface cables - Gold optics See accessories for more options |